

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 16, 2005, 16:27:09 ; Search time 11.0505 Seconds  
(without alignments)  
1479.409 Million cell updates/sec

Title: US-10-003-356-2

Perfect score: 1138

Sequence: 1 MFERRKQDEGFCIHFLAF.....RVIASDKIOSKAVKRIQHF 219

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/prodata/1/iaa/5A COMB.pep.\*
- 2: /cgn2\_6/prodata/1/iaa/5B COMB.pep.\*
- 3: /cgn2\_6/prodata/1/iaa/6A COMB.pep.\*
- 4: /cgn2\_6/prodata/1/iaa/6B COMB.pep.\*
- 5: /cgn2\_6/prodata/1/iaa/PCTUS COMB.pep.\*
- 6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	357	31.4	1059	3	US-09-134-513-2
2	353	31.0	975	4	US-09-695-481-4
3	353	31.0	1027	3	US-09-162-021B-2
4	353	31.0	1027	1	US-10-268-051-8
5	353	31.0	1078	1	US-08-485-588-7
6	353	31.0	1078	1	US-08-484-565-7
7	353	31.0	1078	2	US-08-480-751-7
8	353	31.0	1078	2	US-08-943-986-7
9	353	31.0	1078	3	US-08-353-784-7
10	353	31.0	1078	3	US-08-484-719B-7
11	353	31.0	1078	3	US-08-484-159-7
12	353	31.0	1088	1	US-08-485-588-6
13	353	31.0	1088	1	US-08-484-565-6
14	353	31.0	1088	2	US-08-480-751-6
15	353	31.0	1088	2	US-08-943-986-6
16	353	31.0	1088	3	US-08-353-784-6
17	353	31.0	1088	3	US-08-484-719B-6
18	353	31.0	1088	3	US-08-484-159-6
19	353	31.0	1219	2	US-08-687-289A-6
20	353	31.0	1219	4	US-09-435-897-6
21	351	30.8	1079	1	US-08-485-588-8
22	351	30.8	1079	1	US-08-484-565-8
23	351	30.8	1079	2	US-08-480-751-8
24	351	30.8	1079	2	US-08-943-986-8
25	351	30.8	1079	3	US-08-353-784-8
26	351	30.8	1079	3	US-08-484-719B-8
27	351	30.8	1079	3	US-08-484-159-8

28	349	30.7	1085	1	US-08-485-588-5	Sequence 5, Appli
29	349	30.7	1085	1	US-08-484-565-5	Sequence 5, Appli
30	349	30.7	1085	1	US-08-480-751-5	Sequence 5, Appli
31	349	30.7	1085	2	US-08-943-986-5	Sequence 5, Appli
32	349	30.7	1085	3	US-08-353-784-5	Sequence 5, Appli
33	349	30.7	1085	3	US-08-484-719B-5	Sequence 5, Appli
34	349	30.7	1085	3	US-08-484-159-5	Sequence 5, Appli
35	264.5	23.2	835	4	US-09-619-353-7	Sequence 7, Appli
36	257.5	22.6	851	4	US-09-619-353-8	Sequence 12, Appli
37	254	22.3	856	4	US-09-619-353-8	Sequence 8, Appli
38	240	21.1	863	4	US-09-619-353-14	Sequence 14, Appli
39	231	20.3	877	1	US-08-072-574-12	Sequence 12, Appli
40	231	20.3	877	1	US-08-486-270-12	Sequence 12, Appli
41	231	20.3	877	3	US-08-367-264-12	Sequence 12, Appli
42	231	20.3	877	3	US-09-153-757-12	Sequence 12, Appli
43	231	20.3	877	4	US-09-459-715-12	Sequence 12, Appli
44	231	20.3	1180	1	US-08-072-574-8	Sequence 8, Appli
45	231	20.3	1180	1	US-08-486-270-8	Sequence 8, Appli

#### ALIGNMENTS

RESULT 1  
US-09-134-513-2  
; Sequence 2, Application US/09134513  
; Patent No. 6210964  
; GENERAL INFORMATION:  
; APPLICANT: Brown, Edward M.  
; APPLICANT: Diaz, Ruben  
; APPLICANT: Bai, Mei  
; APPLICANT: Quinn, Stephen J.  
; TITLE OF INVENTION: The Avian Extracellular Calcium-Sensing  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Vinson & Elkins L.L.P.  
; STREET: 1455 Pennsylvania Avenue, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.  
; ZIP: 20004-1008  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09134,513  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sanzo, Michael A.  
; REGISTRATION NUMBER: 36,912  
; REFERENCE/DOCKET NUMBER: BRI331/13003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)639-6585  
; TELEFAX: (202)639-6604  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1059 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: not relevant  
; TOPOLOGY: not relevant  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
US-09-134-513-2

Query Match 31.4%; Score 357; DB 3; Length 1059;  
Best Local Similarity 37.6%; Pred. No. 4.8e-35;  
Matches 79; Conservative 43; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLW--AELGSEAKEEKEERTCRLLGKCVDAENHSLVIGLFPIDSRTPANESI-LE 74

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; TITLE OF INVENTION: Species and Methods of Use Thereof
; FILE REFERENCE: 2856.1001-007
; CURRENT APPLICATION NUMBER: US/09/162,021B
; CURRENT FILING DATE: 1998-09-28
; PRIOR APPLICATION NUMBER: PCT/US97/05031
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/622,738
; PRIOR FILING DATE: 1996-03-27
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: squalus acanthias
; US-09-162-021B-2

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## RESULT 2

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US-09-695-481-4
; Sequence 4, Application US/09695481
; Patent No. 6534287
; GENERAL INFORMATION:
; APPLICANT: STORMANN, THOMAS M.
; APPLICANT: LEVINTHAL, CYNTHIA
; APPLICANT: STORJOHANN, LAURA
; APPLICANT: HAMMERLAND, LANCE G.
; APPLICANT: KRAPCHO, KAREN J.
; APPLICANT: NPS PHARMACEUTICALS, INC.
; TITLE OF INVENTION: A NOVEL HUMAN METABOTROPIC GLUTAMATE RECEPTOR
; FILE REFERENCE: 1094.2.6
; CURRENT APPLICATION NUMBER: US/09/695,481
; CURRENT FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: 60/161,481
; PRIOR FILING DATE: 1999-10-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 975
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Chimeric
; US-09-695-481-4

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Query Match 31.0%; Score 353; DB 4; Length 975;
Best Local Similarity 37.1%; Pred. No. 1.3e-34;
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAFLW--AELGSEAKEKEERTCLLGKCVDAENHSLVIGGLFPIDSRITIPANESI-LE 74
Db 11 LALTWHTSAVGPDRQAOKGD-----IILGGLFPIHFGVAAKQDOLKSR 54
QY 75 PASAKCEGFNFRPMKAMHMIKEINKRDIILPNITLGYQIFDTCFTTISKSVEAVLVF 134
Db 55 PESVECIYRNGFRFRLQAMIFAEIENSPALLNLTGRIYDFDTCNTVSKALEATLSF 114
QY 135 LTQGE---ENRPNFNSNGAPPA--GIVGAGSFLSVPASRILGLYLPQVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDLFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFVPOVSVASSRLL 174
QY 190 SDKYQPPSYLRVIAADKIQSKAVVKRIQHF 219
Db 175 SNKNQFKSLRTIPNDEHQATAMADIIEYF 204

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## RESULT 3

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US-09-162-021B-2
; Sequence 2, Application US/09162021B
; Patent No. 6337391
; GENERAL INFORMATION:
; APPLICANT: H. William Harris
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; TITLE OF INVENTION: Polycation-Sensing Receptor in Aquatic

```

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; TITLE OF INVENTION: Species and Methods of Use Thereof
; FILE REFERENCE: 2856.1001-007
; CURRENT APPLICATION NUMBER: US/09/162,021B
; CURRENT FILING DATE: 1998-09-28
; PRIOR APPLICATION NUMBER: PCT/US97/05031
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/622,738
; PRIOR FILING DATE: 1996-03-27
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: squalus acanthias
; US-09-162-021B-2

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Query Match 31.0%; Score 353; DB 3; Length 1027;
Best Local Similarity 41.6%; Pred. No. 1.4e-34;
Matches 72; Conservative 39; Mismatches 56; Indels 6; Gaps 3;

QY 53 LVIGGLFPIDSRITIPANESI-LEPASAKCEGFNFRPMKAMHMIKEINKRDIILPNI 111
Db 36 IILGGLFPIHFGVAAKQDOLKSRPEATKCIYRNGFRFRLQAMIFAEIENNSMTFLPN 95
QY 112 TLGYQIFDTCFTTISKSVEAVLVFLTQGE---ENRPNFNSNGAPPA--GIVGAGSFLSV 166
Db 96 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDLFCNCSDHIPSTIAVVGATSGIST 155
QY 167 PASRILGLYLPQVGYTSTCVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHF 219
Db 156 AVANLLGLFVPOVSVASSRLLSNKNKYKAPLRTIPNDEQQATAMAEIIEHF 208

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## RESULT 4

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US-10-268-051-8
; Sequence 8, Application US/10268051
; Patent No. 6748900
; GENERAL INFORMATION:
; APPLICANT: Harris, H. William
; APPLICANT: Jury, Steven
; APPLICANT: Russell, David R.
; APPLICANT: Nearing, Jacqueline A
; APPLICANT: Betka, Marlies
; APPLICANT: Linley, Timothy
; APPLICANT: Brown, Edward M
; TITLE OF INVENTION: Methods for Growing and Imprinting Fish Using an Odorant
; FILE REFERENCE: 2213.2004-001
; CURRENT APPLICATION NUMBER: US/10/268,051
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: 60/328,464
; PRIOR FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 1027
; TYPE: PRT
; ORGANISM: Squalus acanthias
; US-10-268-051-8

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```

Query Match 31.0%; Score 353; DB 4; Length 1027;
Best Local Similarity 41.6%; Pred. No. 1.4e-34;
Matches 72; Conservative 39; Mismatches 56; Indels 6; Gaps 3;

QY 53 LVIGGLFPIDSRITIPANESI-LEPASAKCEGFNFRPMKAMHMIKEINKRDIILPNI 111
Db 36 IILGGLFPIHFGVAAKQDOLKSRPEATKCIYRNGFRFRLQAMIFAEIENNSMTFLPN 95
QY 112 TLGYQIFDTCFTTISKSVEAVLVFLTQGE---ENRPNFNSNGAPPA--GIVGAGSFLSV 166
Db 96 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDLFCNCSDHIPSTIAVVGATSGIST 155
QY 167 PASRILGLYLPQVGYTSTCVILSDKYQPPSYLRVIAADKIQSKAVVKRIQHF 219

```



TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1078 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-565-7

Query Match 31.0%; Score 353; DB 1; Length 1078;  
Best Local Similarity 37.1%; Pred. No. 1.6e-34;  
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLM--AELGSEAKEKEBEERTCLLGKCVDAENHSLVGLGFPIDSRTPANESI-LE 74  
DB 11 LALTWHTSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKDQLKSR 54

QY 75 PASAKCEGFNFRWKMAMHMIKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134  
DB 55 PESVEICRYNFRGRWLQAMIFALEEINSSPALLPNLTGYRFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSVPASRIILGLYLPQVGYTSTCVIL 189  
DB 115 VAQNKIDSLNDFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQFPSYLRVIASDKIOSKAVVKRIQHF 219  
DB 175 SNKNQKFSFLRTIPNDEHQATAMADIIEYF 204

RESULT 7  
US-08-480-751-7  
Sequence 7, Application US/08480751  
Patent No. 5858684  
GENERAL INFORMATION:  
APPLICANT: Edward F. Nemeth  
APPLICANT: Edward M. Brown  
APPLICANT: Steven C. Hebert  
APPLICANT: Forrest H. Fuller  
APPLICANT: James E. Garrett, Jr.  
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Lyon & Lyon  
STREET: First Interstate World Center  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: FASTSEQ  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/480,751  
FILING DATE: 7 June, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION DATA: including application described below: 9  
APPLICATION NUMBER: 08/353,784  
FILING DATE: 9 December, 1994  
APPLICATION NUMBER: PCT/US/94/12117  
FILING DATE: 21 October, 1994  
APPLICATION NUMBER: U.S. 08/292,827  
FILING DATE: 23 August, 1994  
APPLICATION NUMBER: U.S. 08/141,248

TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1078 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-565-7

Query Match 31.0%; Score 353; DB 1; Length 1078;  
Best Local Similarity 37.1%; Pred. No. 1.6e-34;  
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLM--AELGSEAKEKEBEERTCLLGKCVDAENHSLVGLGFPIDSRTPANESI-LE 74  
DB 11 LALTWHTSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKDQLKSR 54

QY 75 PASAKCEGFNFRWKMAMHMIKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134  
DB 55 PESVEICRYNFRGRWLQAMIFALEEINSSPALLPNLTGYRFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSVPASRIILGLYLPQVGYTSTCVIL 189  
DB 115 VAQNKIDSLNDFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSRLL 174

QY 190 SDKYQFPSYLRVIASDKIOSKAVVKRIQHF 219  
DB 175 SNKNQKFSFLRTIPNDEHQATAMADIIEYF 204

RESULT 8  
US-08-943-986-7  
Sequence 7, Application US/08943986  
Patent No. 5923314  
GENERAL INFORMATION:  
APPLICANT: Edward M. Brown  
APPLICANT: Steven C. Hebert  
APPLICANT: James E. Garrett, Jr.  
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Lyon & Lyon  
STREET: First Interstate World Center  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: FASTSEQ

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,986
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/484,565
; FILING DATE: 7-June-1995
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1078 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-943-986-7

Query Match 31.0%; Score 353; DB 2; Length 1078;
Best Local Similarity 37.1%; Pred. No. 1.6e-34;
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLM--AELGSAKEKEEERTCRLGKCVDAENHSLVIGLFPDTSRTIPANESI-LE 74
DB 11 LALTWTSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKDQDLKSR 54
QY 75 PASAKCEGFNFRFRWKAMIHMIKEINKRKDILPNITLGYQIFDTCFTTISKSVAVLVF 134
DB 55 PESVEICIRYNFRGFRWLQAMIPALBEINSSPALLPNLTGLYRIFDTCNTVSKALEATLSF 114
QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSVPASRIILGYLFPQVGYTSTCVIL 189
DB 115 VAQNKIDSLNLDLDFCNCSEHPSITIAVVGATGSGVSTAVANLLGLFYIPQVSVASSRLL 174
QY 190 SDKYQPSYLRVIASDKIOSKAVVKRIQHP 219
DB 175 SNKNQPKSPLRTIPNDEHQATMADIIIEYF 204

RESULT 9
US-08-353-784-7
; Sequence 7, Application US/08353784
; Patent No. 6011068
; GENERAL INFORMATION:
; APPLICANT: Edward F. Nemeth, Edward M.
; APPLICANT: Brown, Steven C. Hebert,
; APPLICANT: Bradford C. Van Wagenen, Manuel
; APPLICANT: F. Balandrin, Forrest H. Fuller,
; APPLICANT: Eric G. DelMar, and Scott T. Moe
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

```

```

; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; CITY: 633 West Fifth Street
; STATE: Los Angeles
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/353,784
; FILING DATE: 9 December, 1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 8
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 209/069
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1078 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-353-784-7

Query Match 31.0%; Score 353; DB 3; Length 1078;
Best Local Similarity 37.1%; Pred. No. 1.6e-34;
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLM--AELGSAKEKEEERTCRLGKCVDAENHSLVIGLFPDTSRTIPANESI-LE 74
DB 11 LALTWTSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKDQDLKSR 54
QY 75 PASAKCEGFNFRFRWKAMIHMIKEINKRKDILPNITLGYQIFDTCFTTISKSVAVLVF 134
DB 55 PESVEICIRYNFRGFRWLQAMIPALBEINSSPALLPNLTGLYRIFDTCNTVSKALEATLSF 114
QY 135 LTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSVPASRIILGYLFPQVGYTSTCVIL 189
DB 115 VAQNKIDSLNLDLDFCNCSEHPSITIAVVGATGSGVSTAVANLLGLFYIPQVSVASSRLL 174
QY 190 SDKYQPSYLRVIASDKIOSKAVVKRIQHP 219

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REFERENCE/DOCKET NUMBER: 214/101  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1078 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-159-7

Query Match 31.0%; Score 353; DB 3; Length 1078;  
Best Local Similarity 37.1%; Pred. No. 1.6e-34;  
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLW--AELGSEAKEKEEERTCLLKGKCVDAENHSLVIGLFPIDSRITIPANESI-LE 74  
DB 11 LALTWHTSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKQDQLKSR 54  
QY 75 PASAKCEGFNFORPMKAMIMHKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134  
DB 55 PESVEICIRYNGFRWLQAMIPAEINSSPALLPNLTILGYRIFDTCNTVSKALEATLSF 114  
QY 135 LTQGE---ENRPNFRNSTGAPFA--GIVGAGSFLSVPASRILGLYLPQVGYTSTCVIL 189  
DB 115 VAQNKIDSLNLDDEFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIIPQVSVASSRLL 174  
QY 190 SKYQPPSYLRVIASDKIQSKAVVKRIQHF 219  
DB 175 SNKNQPKSLRTIPNDEHQATAMADIIEYP 204

## RESULT 12

US-08-485-588-6  
Sequence 6, Application US/08485588  
Patent No. 5688938  
GENERAL INFORMATION:  
APPLICANT: Edward M. Brown  
APPLICANT: Steven C. Hebert  
APPLICANT: Forrest H. Fuller  
APPLICANT: James E. Garrett, Jr.  
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
TITLE OF INVENTION: MOLECULES  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: First Interstate World Center  
STREET: Suite 4700  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: FASTSEQ  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/485,588  
FILING DATE: 7 June, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below: 9  
APPLICATION NUMBER: 08/353,784  
FILING DATE: 9 December, 1994  
APPLICATION NUMBER: PCT/US/94/12117  
FILING DATE: 21 October, 1994  
APPLICATION NUMBER: U.S. 08/292,827  
FILING DATE: 23 August, 1994

APPLICATION NUMBER: U.S. 08/141,248  
FILING DATE: 22 October, 1993  
APPLICATION NUMBER: U.S. 08/009,389  
FILING DATE: 23 February, 1993  
APPLICATION NUMBER: U.S. 08/017,127  
FILING DATE: 12 February, 1993  
APPLICATION NUMBER: U.S. 07/934,161  
FILING DATE: 21 August, 1992  
APPLICATION NUMBER: U.S. 07/834,044  
FILING DATE: 11 February, 1992  
APPLICATION NUMBER: U.S. 07/749,451  
FILING DATE: 23 August, 1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Heber, Sheldon O.  
REGISTRATION NUMBER: 38,179  
REFERENCE/DOCKET NUMBER: 213/005  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1088 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-485-588-6

Query Match 31.0%; Score 353; DB 1; Length 1088;  
Best Local Similarity 37.1%; Pred. No. 1.6e-34;  
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAPLW--AELGSEAKEKEEERTCLLKGKCVDAENHSLVIGLFPIDSRITIPANESI-LE 74  
DB 11 LALTWHTSAYGPDQRAQKGD-----IILGGLFPIHFGVAAKQDQLKSR 54  
QY 75 PASAKCEGFNFORPMKAMIMHKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134  
DB 55 PESVEICIRYNGFRWLQAMIPAEINSSPALLPNLTILGYRIFDTCNTVSKALEATLSF 114  
QY 135 LTQGE---ENRPNFRNSTGAPFA--GIVGAGSFLSVPASRILGLYLPQVGYTSTCVIL 189  
DB 115 VAQNKIDSLNLDDEFNCSEHIPSTIAVVGATSGVSTAVANLLGLFYIIPQVSVASSRLL 174  
QY 190 SKYQPPSYLRVIASDKIQSKAVVKRIQHF 219  
DB 175 SNKNQPKSLRTIPNDEHQATAMADIIEYP 204

RESULT 13  
US-08-484-565-6  
Sequence 6, Application US/08484565  
Patent No. 5763569  
GENERAL INFORMATION:  
APPLICANT: Edward M. Brown  
APPLICANT: Steven C. Hebert  
APPLICANT: James E. Garrett, Jr.  
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
TITLE OF INVENTION: MOLECULES  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: First Interstate World Center  
STREET: Suite 4700  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,565
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1088 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-565-6

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Query Match 31.0%; Score 353; DB 1; Length 1088;
Best Local Similarity 37.1%; Pred. No. 1.6e-34;
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAFLW--AELGSEAKEKEEBERTCLLGKCVDAENHSLVIGGLFPIDSRTPANESI-LE 74
Db 11 LALTWHTSAYGPDQRAKKGD-----IILGGLFFPIHFVAAKQDQLKSR 54

QY 75 PASAKCEGFNFQRFWRMKAMIMHIKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134
Db 55 PESVECIYRNFGRFWLQAMIFAEINESSPALLPNLTIGYRIFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNPNSTGAPPA--GIVGAGGSFLSVPASRIILGLYLPQVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDNFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSVASSRLL 174

QY 190 SDKYQFPYSYLRVLTASDKIQSKAVKRIQHF 219
Db 175 SNKQKFSFLRTIPNDEHQATMADIIIEYF 204

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RESULT 14
US-08-480-751-6
; Sequence 6, Application US/08480751
; Patent No. 5858684
; GENERAL INFORMATION:
; APPLICANT: Edward P. Nemeth
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: Forrest H. Fuller
; APPLICANT: James E. Garrett, Jr.

```

```

; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,751
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1088 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-480-751-6

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Query Match 31.0%; Score 353; DB 2; Length 1088;
Best Local Similarity 37.1%; Pred. No. 1.6e-34;
Matches 78; Conservative 44; Mismatches 64; Indels 24; Gaps 5;

QY 18 LAFLW--AELGSEAKEKEEBERTCLLGKCVDAENHSLVIGGLFPIDSRTPANESI-LE 74
Db 11 LALTWHTSAYGPDQRAKKGD-----IILGGLFFPIHFVAAKQDQLKSR 54

QY 75 PASAKCEGFNFQRFWRMKAMIMHIKEINKRKDILPNITLGYQIFDTCFTISKSVEAVLVF 134
Db 55 PESVECIYRNFGRFWLQAMIFAEINESSPALLPNLTIGYRIFDTCNTVSKALEATLSF 114

QY 135 LTQGE---ENRPNPNSTGAPPA--GIVGAGGSFLSVPASRIILGLYLPQVGYTSTCVIL 189
Db 115 VAQNKIDSLNLDNFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSVASSRLL 174

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